

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
✓ PO038419	ACI001-VC	1	1	Net 30	M303B1.000X1.000	M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft				✓ 24	11/24/2017	24		✓ S019331	Stock	12/9/2017	\$ 22.42 / ft	0		\$538.00	Acier Ouellette Inc.
		5			M17-4-S11GA	17-4 SS Sheet 0.125 (AMS 5604 or ASTM 093) : MATERIAL: 17-4PH STAINLESS STEEL SHEET AS PER AMS 5604 MINIMUM YIELD TENSILE STRENGTH = 105 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 135 KSI receive ft				✓ 32		30		✓ S019332	Stock	12/9/2017	\$ 55.31 / ft	0		\$1,659.38	Acier Ouellette Inc.
Total:										56		54								\$1,709.93	

Plex 12/9/2017 1:15 PM Dart.Plouffe, Sonia

Status: Receiving

 Part: **M17-4-S11GA**

Created: 12/9/17 1:14 PM DART.PLOUFFE.SC


 Serial No: **S019332**

Status: Receiving

 Part: **M303B1.000X1.000**

Created: 12/9/17 1:14 PM DART.PLOUFFE.SC


 Serial No: **S019331**



DELIVERY - CLIENT

CO00063128

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

OUELLETTE VALLEYFIELD

Net 30 Days

1

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
1		SQUARE SS 1 SS303 NS CSS-1303 9512 2 X 12' R/L HEAT AC11458-JG-30/11	81.60	24.00	PI_\$CLB		2x				
2		SHEET SS 11G 17-4 PH AMSS604 NS FESS-11G174PH 9513 1 X 3' X 10' HEAT AC11459-TW-05/12	157.50	30.00	PI2_\$CLB		1x				

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 239.10

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Y M D

Total (\$CAD)

Customer's Signature

Date



ACIER OUELLETTE INC.
935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy CO00063128

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N° CL10001056

Date 2017/11/21

Delivery date 2017/12/07

Your order N° 38419

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 1

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only		
				CMD	EXP	B/O	IN	I S C
1 SQUARE SS 1 SS303 NS CSS-1303 9512 2 X 12' R/L HEAT: 272759 certificate of conf. AC11458-JG-30/11	81.60	24.00	PI_\$CLB	2.00				
2 SHEET SS 11G 17-4 PH AMS5604 NS FESS-11G174PH 9513 1 X 3' X 10' HEAT: 85059 AC11459-TN-05/12	157.50	30.00	PI2_\$CLB	1.00				

NIR : R-109516-6

Total Weight (LBS) : 239.10

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Delivered By :

Time

Customer's Signature

Y	M	D

Total (\$CAD)

2 608.04

Deposit

0.00

Balance

2 608.04



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO038419

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038419
PO Date: 11/20/17
Due Date: 11/24/17
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

E-MAILED

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments: quotation no sou0071752 and sou0071752

Items

Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft		Firmed	11/24/17	24 ft	0 ft	24 ft	\$22.41666/ft	\$538.00
2	M304R1.000		304 Round Bar 1.00 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft		Firmed	11/24/17	48 ft	0 ft	48 ft	\$6.566875/ft	\$315.21
3	M304S24GA		304/316 .025 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf		Firmed	11/24/17	64 sf	0 sf	64 sf	\$2.8975/sf	\$185.44
4	MT-1144-R1.750		1144 Steel Proof Round Bar 1.750"		Firmed	11/24/17	12 ft	0 ft	12 ft	\$15.210833/ft	\$182.53
5	M17-4-S11GA		17-4 SS Sheet 0.125 (AMS 5604 or ASTM 693) : MATERIAL: 17-4PH STAINLESS STEEL SHEET AS		Firmed	11/24/17	32 ft	0 ft	32 ft	\$55.3125/ft	\$1,770.00



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038419

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	M6061T6S.032	✓	PER AMS 5604 MINIMUM YIELD TENSILE STRENGTH = 105 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 135 KSI receive ft 6061-T6 Sheet 0.032" : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209		Firmed	11/24/17	144 sf	0 sf	144 sf	\$2.2416666/sf	\$322.80
7	M6061T6S.063	✓	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/24/17	144 sf	0 sf	144 sf	\$2.7565625/sf	\$396.95
8	M6061T6S.040	✓	6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/24/17	144 sf	0 sf	144 sf	\$2.792222/sf	\$402.08
9	M6061T6S.125	✓	6061-T6 .125 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/24/17	144 sf	0 sf	144 sf	\$6.2789583/sf	\$904.17
10	M303R2.000	✓	303 Round Bar 2" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT		Firmed	11/24/17	48 ft	0 ft	48 ft	\$32.585583/ft	\$1,564.11



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO038419

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
11	M1018R0.500		ACCEPTABLE receive ft 1018-1025 round bar .500 : MATERIAL: AISI 1018-1025 ROUND BAR AS PER MIL- S-7097 OR ASTM A108 Material, AISI 1020- 1025 ROUND TUBING PER MIL- T-5066 OR ASTM A513-00 MT1020 OR AMS 5075 OR AMS 5077 COLD DRAWN		Firmed	11/24/17	12 ft	0 ft	12 ft	\$0.86833/ft	\$10.42
											18.9
											SEP-12
Grand Total:											\$6,591.70

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/20/17 1:33 PM DART.LAVOIE.CHANTAL



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0071752

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N  CLI0001056
Date 2017/11/17
Revision N  0
Prices valid until 2017/11/24
Your Order N 
Processed by BERNARD
Salesman JOSIANNE
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 1

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
CARRE SS303 1" N 2 X 12' R/L 7-10 DAYS	0.00	2.00	UN	2.00	UN		2.00	269.000	538.00
ROUND SS 1 304 RANDOM RSS-1-V 5747 4 X 12' R/L STOCK	128.16	48.00	PI_\$CLB	48.00	PI		4.00	78.802	315.21
SHEET SS 24G SS304-2B (4 X 8) FESS-24G483042B 3441 2 X 4' X 8' STOCK	67.20	64.00	PI2_\$CLB	2.00	UN		2.00	92.720	185.44
ROUND STRESSPROOF 1 3/4 RANDOM RST-134-V 5799 1 X 12' 3-4 DAYS	98.16	12.00	PI_\$CLB	12.00	PI		1.00	182.530	182.53
SHEET 17-4 11G N 1 X 4' X 8' 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	1 770.000	1 770.00
ALU SHEET .032 (20G) 6061-T6 (4 X 12) FEAL-0324126061 3096 3 X 4' X 12' 2-3 DAYS	65.09	144.00	PI2_\$CLB	3.00	UN		3.00	107.600	322.80
ALU SHEET .064 (14G) 6061-T6 (4 X 12) FEAL-0644126061 3169 3 X 4' X 12' 2-3 DAYS	129.74	144.00	PI2_\$CLB	3.00	UN		3.00	132.316	396.95
ALU SHEET .040 (18G) 6061-T6 (4 X 12) FEAL-0404126061 3121 3 X 4' X 12' 2-3 DAYS	81.07	144.00	PI2_\$CLB	3.00	UN		3.00	134.026	402.08
ALU SHEET 1/8 6061-T6 (4 X 12) FEAL-184126061 4253 3 X 4' X 12' 2-3 DAYS	254.02	144.00	PI2_\$CLB	3.00	UN		3.00	301.390	904.17
ROND SS 2 303 RANDOM NS RSS-2-V 8931 4 X 12' R/L 3-4 DAYS	523.20	48.00	PI_\$CLB	48.00	UN_\$UN		4.00	391.027	1 564.11

pr avis en fonction de l volution des prix de l'acier sur le march .
Cette offre est sujette et conditionnelle   l'approbation du cr dit.

Date :

Next Page...

Date : _____

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0071884****Billed to**

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N  CLI0001056
Date 2017/11/20
Revision N  0
Prices valid until 2017/11/27
Your Order N 
Processed by BERNARD
Salesman JOSIANNE
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 1

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND CR 1/2 1018 RANDOM RCR-12-V 5267 1 X 12' R/L STOCK	8.02	12.00	PI_\$CLB	12.00	PI		1.00	10.420	10.42
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

8.02

Important

This offer is based on availability and current pricing conditions that may be revised upon

pr sentation of the order de l' volution des prix de l'acier sur le march .

Cette offre est soumise aux conditions de l'approbation du cr dit.

Approved and Accepted by :

Date :

Sub-total

14.37

TVH-13 · · 1.87

Total (\$CAD)**16.24**

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 01

Certification Date
30-NOV-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T373114

AC00011458
PART NUMBER/NUMÉRO DE PIÈCE
510850

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6S

Description: 303 CD ANN BAR ASTM A582

1 SQ X 12" R/L

HEAT: 272759

ITEM: 510850

Line Total: 88 LB

Specifications:
AMS 5640 TYPE 1 V
UNS S30300

ASTM A582 12
QQ S 764B AMD.2

ASTM A484 16
EN 10204 3.1

CHEMICAL ANALYSIS

C	MN	P	S	SI	CR	NI	MO
0.051	1.69	0.03	0.28	0.67	17.51	8.05	0.37
CU	CO	N					
0.55	0.14	0.03					

RCPT: R341175

COUNTRY OF ORIGIN : ITALY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	63000.0	103000.0	41.9	55.9	218

STRAND CAST REDUCTION RATIO 4.1 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport n'a pas été en contact avec le mercure pendant sa possession.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

Customer PO: B12018170
UPM Sales Order: 653172
Date: 11/27/2017
Description/Form: STAINLESS 17-4 PH - SHEET
Heat Number: 852059 Ingot: 17L002512E

Size: .1250
Customer P/N:
Packing List Number: 47556-1
Quantity: 152 lb. 1 pc

CO. 63128

P.O. 11453

NOTICE OF SHIPMENT/
PACKING LIST



ATI

Flat Rolled Products

CERTIFICATE OF TEST

AL 6168 B 417

CUST ORD NO & DATE
CIN-27388-P09
FORMS DISTRIBUTION
SOLD TO 3 SHIP TO 1 SPEC 1
CUST CODE
06/08/17 110977
MG BILL
L62381
FRESHING LOCATION
LOUISVILLE, OH
SHIPPER NO
545802
PRODUCT CODE
13010103060000
MATERIAL
1473 BENWOOD
MIL ORDER NUMBER
30-067-219
DATE SHIPPED
09/27/17
SHIPPING LOCATION
WV
244837
158
REPEAT ORDER
04438-2
DO RATE
126
PRIME SEC.
DSO DSO
10

GRADE AND SPECIFICATIONS

CARRIER - GROSS, RONALD, INC.

ATI 17-4 PRECIPITATION HARDENABLE STAINLESS STEEL SHEET C R CUT LENGTHS ANNEALED 2D FIN 3 EDGE (AMS 22480)
(AMS 2315G) (AMS 5604H CND A/H900) (ASTM-A-693-16 S17400 CND A/H900) (ASME-SA-693-15 CND A/H900) (S-1000)
DATED 01/19/2017 (S-400 DTD 06/03/2016) (UPM 17-4) (02/10/14 EXCEPTIONS TO UPM-17-4) (ASTM-F-899-12B)
(UPM-QRS-001 ISS 1 REV B) (03/06/15 EXC TO UPM-QRS-001)

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #	CD	SKID #
001A	20	36./.125/120.125	852059	AAB94531-A	L297866	3120	80	3040				
	20	36./.125/120.125	852059	AAB94531-B	L297866	3120	80	3040				
	20	36./.125/120.125	852059	AAB94531-C	L297866	3120	80	3040				
	20	36./.125/120.125	852059	AAB94531-D	L297866	3100	80	3020				
	14	36./.125/120.125	852059	AAB94531-E	L297866	2220	80	2140				
C CUST IDENTITY 17-4125X36X120						14680	400	14280				
5 SKIDS												

DIST: EMAIL INV AND S/N TO ATIFLATROLLEDPRODUCTS@UPMET.COM

TYPE	HEAT/TEST	(WT %)	--C--	--MN--	--P--	--S--	--SI--	--CR--	--NI--	--MO--	--CU--	--CB--	--TA--
HEAT	852059		.04	.51	.030	.0003	.18	15.51	4.80	.21	3.27	.25	.010
TEST LOCATION			BN	BN	BN	BN	BN	BN	BN	BN	BN	BN	TC
CHECK	L297866		.04	.51	.028	.0003	.17	15.47	4.77	.21	3.23	.25	.010
TEST LOCATION			TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC

PAGE 01 - CONTINUED ON PAGE 02

10/10/17 16:45:44

CONSIGNEE: Please Note: This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceases. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

WARNING
Safety Data Sheets for this product are available on our website, www.ATIMetal.com. A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Signature: *[Signature]*
S: Manager Quality Corporate Quality Assurance

Customer PO: B12018170
UPM Sales Order: 653172
Date: 11/27/2017
Description/Form: STAINLESS 17-4 PH - SHEET
Heat Number: 852059
Ingot: 17L002512E

Customer P/N:
Packing List Number: 47556-1
Quantity: 152 lb. 1 pc

NOTICE OF SHIPMENT/
PACKING LIST



CERTIFICATE OF TEST

AT 6168 H 017

CUST ORD NO & DATE: CIN-27388-P09
FORMS DISTRIBUTION: 06/08/17
SOLD TO: 3 SHIP TO: 1
MG BILL: L62381
UNITED PERFORMANCE METALS INC
3475 SYMMES ROAD
HAMILTON OH 45015

CUST CODE: 110977
FINISHING LOCATION: LOUISVILLE, OH
SHIPPER NO: 545802
GOVT CONTRACT: 13010103060000
PRODUCT CODE: 130-067-219
MILL ORDER NUMBER: 109/27/17
DATE SHIPPED: 109/27/17
SHIP TO: 1473 BENWOOD
UNITED PERFORMANCE METALS
3475 SYMMES ROAD
HAMILTON OH 45015

REPEAT ORDER: 04438-2
DO RATE: 26
PRIME SEC.
DSO DSO
10

GRADE: 17-4
CARRIER - GROSS, RONALD, INC.
PRECIPITATION HARDENABLE STAINLESS STEEL SHEET C R CUT LENGTHS ANNEALED 2D FIN 3 EDGE

ITEM TEST NO	TEST CONDITION	YIELD PSI	TENSILE PSI	% ELONG IN 2"	HARDNESS	BEND	ASTM GRAIN SIZE	STRESS CORROSION	CORROSION SALT SPRAY
001A L297866	AS RECEIVED	T*130000	161900	7.5 #	37.HRC	NR	10.	NR	NR
TEST LOCATION	TC	TC	TC	TC	TC	TC	TC	TC	TC
TEST LOCATION	TEST HEAT TREATED	*185500.	196100	11. =	45.HRC				
TEST LOCATION	TC	TC	TC	TC	TC				
ITEM TEST NO	DELTA FERRITE								
001A L297866	1.00								
TEST LOCATION	PE								
	# ELONG AT FRACTURE			= ELONG AFTER FRACTURE					

NR = DATA NOT REQUIRED
METALLOGRAPHIC MAGNIFICATION: 100X ETCHANT USED: OXALIC ACID

GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL.

PAGE 02 - CONTINUED ON PAGE 03

10/10/17 16:45:44

CONSIGNEE: Please Note: This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

WARNING: Safety Data Sheets for this product are available on our website, www.ATIMetals.com. A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

No-see Defect
Sr. Manager Quality Corporate Quality Assurance

UPM Sales Order: 653172
Date: 11/27/2017
Description/Form: STAINLESS 17-4 PH - SHEET
Heat Number: 852059 Ingot: 17L002512E

Packing List Number: 47556-1
Quantity: 152 lb. 1 pc

NOTICE OF SHIPMENT/
PACKING LIST



Flat Rolled Products

CERTIFICATE OF TEST

AL 6168 B 417

JUST ORD NO & DATE IN-27388-P09
FORMS DISTRIBUTION
3 SHIP 10-6
SOLD TO
UNITED PERFORMANCE METALS INC
3475 SYMMES ROAD
HAMILTON OH 45015

06/08/17
MG BILL
L62381

CUST CODE 110977
FINISHING LOCATION LOUISVILLE, OH
SHIPPER NO 545802
GOVT CONTRACT
PRODUCT CODE 13010103060000
MATERIAL 1473 BENWOOD
SHIP TO
UNITED PERFORMANCE METALS
3475 SYMMES ROAD
HAMILTON OH 45015

DATE SHIPPED 09/27/17
INVOICE 244837
156

GRADE
AT 17-4" PRECIPITATION HARDENABLE STAINLESS STEEL SHEET C R CUT LENGTHS ANNEALED 2D FIN 3 ELYE
CARRIER - GROSS, RONALD, INC.

THESE COMMODITIES OR TECHNOLOGY, WHEN EXPORTED FROM THE UNITED STATES, ARE IN ACCORDANCE WITH THE USA EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED. U.S. LAW ALSO PROHIBITS DISPOSITION OF THESE COMMODITIES/TECHNICAL DATA TO ANY END-USER OR FOR ANY END-USE RELATED TO THE DESIGN, DEVELOPMENT, PRODUCTION, STOCKPILING, OR USE OF CHEMICAL, BIOLOGICAL, OR NUCLEAR WEAPONS, OR MISSILES, WITHOUT THE PROPER APPROVAL OF THE UNITED STATES GOVERNMENT.

ATI-FRP DEFINES THE GRAIN ORIENTATION NOMENCLATURE AS LONGITUDINAL (L) IS THE LENGTH, LONG TRANSVERSE (LT) IS THE WIDTH, AND SHORT TRANSVERSE (ST) IS THE THICKNESS OR GAUGE.

MATERIAL WAS SOLUTION ANNEALED AT 1900F +/- 25F (1038C +/- 14C) FOR A TIME COMMENSURATE WITH THICKNESS AND COOLED TO BELOW 90F (32C).

ATI FLAT ROLLED PRODUCTS HAS COMPLIED WITH ALL PRODUCER REQUIREMENTS OF AS6279.

ATI FLAT ROLLED PRODUCTS DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS.

MATERIAL IS OF USA MELT AND MANUFACTURE.

NO WELDS/WELD REPAIRS PERFORMED.

THIS CERTIFIED MATERIAL TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI FRP HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATI FRP QUALITY MANUAL REVISION 26 DATED 06/14/2017.

ATI FLAT ROLLED PRODUCTS WORKS TO THE ROLLS ROYCE SABRE QUALITY MANAGEMENT SYSTEM REQUIREMENTS.
10/10/17 16:45:44
PAGE 03 - CONTINUED ON PAGE 04

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The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

N. J. DeFaria
Sr. Manager Quality Corporate Quality Assurance

Customer PO: B12018170
UPM Sales Order: 653172
Date: 11/27/2017
Description/Form: STAINLESS 17-4 PH - SHEET
Heat Number: 852059 Ingot: 17L002512E

Customer P/N:
Packing List Number: 47556-1
Quantity: 152 lb. 1 pc.

NOTICE OF SHIPMENT/
PACKING LIST



CERTIFICATE OF TEST

AL 6160 B 41

CUST ORD NO & DATE	CUST CODE	FINISHING LOCATION	SHIPPER NO	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
CIN-27388-P09 FORMS DISTRIBUTION	06/08/17 110977	LOUISVILLE, OH	545802	13010103060000	30-067 219	09/27/17
MG BILL L62381	04438-2	DO DATE PPH QNTY	DOY1 CONTRACT	MAT1	SHIP-ING LOCATION	UNDOCE
1	26			1473	BENWOOD	WV 244837 158
SOLD TO UNITED PERFORMANCE METALS INC 3475 SYMMES ROAD HAMILTON OH 45015			SHIP TO UNITED PERFORMANCE METALS 3475 SYMMES ROAD HAMILTON OH 45015			

GRADE
"ATI 17-4" PRECIPITATION HARDENABLE STAINLESS STEEL SHEET C R CUT LENGTHS ANNEALED 2D FIN 3 EDGE
CARRIER - GROSS, RONALD, INC.

ATI FLAT ROLLED PRODUCTS PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES
FOR TESTING LOCATIONS TC, BN, MI, & LO:
C, S BY COMBUSTION/INFRARED
N, O, H BY INERT FUSION/THERMAL CONDUCTIVITY
MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF
B BY OES
AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB, BI, AG BY GFAA

MATERIAL TESTED AT ATI FLAT ROLLED PRODUCTS GEAE S400 APPROVED FACILITIES (T1225 & T9317):
NATRONA HEIGHTS, PA; BRACKENRIDGE, PA AND NEW BEDFORD, MA.

ATI FLAT ROLLED PRODUCTS HOLDS SEVERAL QUALITY AND LABORATORY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100,
AD 2000-MERKBLATT WO, EU PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU, NADCAP, ISO/EIC 17025,
GEAE S400 (T1225 & T9317), GEAE S-1000. REFER TO WWW.ATIMETALS.COM TO ACCESS THE CURRENT ATI FRP
QUALITY CERTIFICATIONS.

"H", "TH", "RH", AND OTHER HEAT TREATED VALUES ARE CAPABILITY TEST RESULTS.

HEAT TREATED @H900 -- 900F FOR 60 MINUTES FOLLOWED BY AIR COOLED.

EN 10204:2005 3.1 CERTIFICATE.

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:
BN = ATI-FLAT ROLLED PRODUCTS; 100 RIVER ROAD; BRACKENRIDGE, PA 15014
PE = PRODUCT EVALUATION SYSTEMS; 637 DONOHUE ROAD; LATROBE, PA 15650
PAGE 04 - CONTINUED ON PAGE 05

10/10/17 16:45:44

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The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

[Signature]
Norman Deferrari
Sr. Manager Quality Corporate Quality Assurance

UPM Sales Order: 653172
Date: 11/27/2017
Description/Form: STAINLESS 17-4 PH - SHEET
Heat Number: 852059 Ingot: 17L002512E

Customer No.
Packing List Number: 47556-1
Quantity: 152 lb. 1 pc

NOTICE OF SHIPMENT/
PACKING LIST



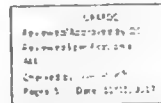
CERTIFICATE OF TEST

AL 6168 B 417

CUST. ORD. NO. & DATE		CUST. CODE		SHIPPING LOCATION		SHIPPER NO.		PRODUCT CODE		BILL ORDER NUMBER		DATE SHIPPED	
IN-27388-P09		06/08/17		110977		LOUISVILLE, OH		545802		13010103060000		30-067-219	
FORMS DISTRIBUTION		MG BILL		REPEAT ORDER		DO RATE		MATERIAL		SHIPPING LOCATION		109/27/17	
X.D. 3		L62381		04438-2		26		1473		BENWOOD		WV 244837	
SOLD TO		PRIME SEC.		DSO DSO		SHIP TO		158					
UNITED PERFORMANCE METALS INC						UNITED PERFORMANCE METALS							
3475 SYMMES ROAD						3475 SYMMES ROAD							
HAMILTON		OH 45015				HAMILTON						OH 45015	

GRADE
"ATI 17-4" PRECIPITATION HARDENABLE STAINLESS STEEL SHEET C R CUT LENGTHS ANNEALED 2D FIN 3 EDGE
CARRIER - GROSS, RONALD, INC.
TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:
PC = ATI-FLAT ROLLED PRODUCTS; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

FOR ACCESS TO ONLINE CERTIFICATES OF TEST
REGISTER AT MYATI.ATIMETALS.COM



PAGE 05 - FINAL PAGE.

10/10/17 16:45:44

CONSIGNEE: Please Note: The consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceases. For your protection please examine shipment at arrival. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

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Naveen Deterani
Sr. Manager Quality Corporate Quality Assurance

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303B1-000x1.000
 DATE: DEC 09 2017

PO / BATCH NO.: 038419/5019331

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24"
 QUANTITY INSPECTED: 24"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	<u>Astm A582</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	<u>Heat # 272759</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> DATE: <u>DEC 09 2017</u>	SIGNED OFF BY: <u>[Signature]</u> DATE: <u>12/14</u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A582
M303B(T.TT) X(WWW.WWWW)
THICK | WIDTH

PART NUMBER:

WHERE "T.TT" = THICKNESS IN INCHES
AND "WWW.WWWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M303B0.500X03.000

RELEASED
2010-02-02

NP

B	REFORMAT DWG. ADD SPECS (ZN DB-1), REF PAR 08-020A	CP	10.01.05
A	NEW ISSUE	DS	02.05.29
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M303B
TITLE	303 BAR
SCALE	NTS
SHEET 1 OF 1	REV B

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-5116A
 DATE: DEC 09 2017

PO / BATCH NO.: 038419/5019332

MATERIAL CERT REC'D: Y/0.5
 QUANTITY RECEIVED: 30"
 QUANTITY INSPECTED: 30"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.125
 THICKNESS RECEIVED: 0.125
 SHEET SIZE ORDERED: 3x10
 SHEET SIZE RECEIVED: 3x10

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	<u>Ams 5604</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>Heat # 85059</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> / <u>5</u> DATE: <u>DEC 09 2017</u> / <u>17/12/11</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / TYPE 630 / S17400 SS SHEET
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5604 OR ASTM A693

PART NUMBER: M17-4-HHHH-S TT GA WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
TT = GAUGE THICKNESS (PER GAUGE THICKNESS TABLE)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	105	135
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART NUMBER
16 GAUGE SS SHEET MIN YTS = 135 KSI, MIN YTS = 105 KSI
14 GAUGE SS SHEET H900 CONDITION
12 GAUGE SS SHEET H1025-S12GA
22 GAUGE SS SHEET A CONDITION

GAUGE THICKNESS TABLE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED
2017-10-31
CWN-728

B	ADD MATERIAL CONDITION AND GAUGE TABLE AND REFORMAT DRAWING (CIR17-107)	NO	17.09.14
A	NEW ISSUE	CB	06.08.17
REV.	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	RA		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-S			
REV. B			
SHEET 1 OF 1			
SCALE			
17-4 SS SHEET			
NTS			
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